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APPLICANT: NIPPON CONTACT LENS SEIZO KK:

INVENTOR: HARADA TATSUO;

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TITLE

: CONTACT LENS MATERIAL



PURPOSE: To obtain a contact lens material having particularly excellent oxygen permeability and wettability with water by using a copolymer of methacryloxyethoxypropyl tris(trimethylsiloxy) silane and (meth)acrylate of mono- or polyhydric alcohol of ≤10C.

CONSTITUTION: The silane compd. expressed by the formula and the ester of (meth)acrylic acid of mono- or polyhydric alcohol of ≤10C are copolymerized. The copolymerization is effected particularly at a monomer ratio of 5-80pts.wt. the silane expressed by the formula and 95-20pts.wt. said ester and 0.01pt.wt. a polymn. initiator such as 2,2'-azobis(2,4-dimethylvaleronitrile) or the like is added thereto. The mixture is cast into a cylindrical mold and the upper space thereof is substd. with gaseous N2. The mixture is polymerized in an oven substd. with gaseous No. A contact lens is manufactured from the resulted colorless transparent and hard bar-shaped block by an ordinary working method. The hard contact lens which has good wettability with water, has large O₂ permeability, permits long-time continuous wearing and strong and tough is thus easily obtd.

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